Listing of Claims:

 (Previously presented) Inorganic fiber insulation material comprising: scrap inorganic insulation fibers; and plastic-containing bonding fibers;

said scrap inorganic fibers containing phenol/formaldehyde binder thereon and the scrap inorganic fibers and the plastic-containing bonding fibers being uniformly blended and bonded together by a portion of the plastic of said plastic-containing bonding fibers.

- 2. (Previously presented) The inorganic fiber insulation material of claim 1, wherein the inorganic fiber insulation material has substantially uniform density throughout its volume.
- 3. (Previously presented) The inorganic fiber insulation material of claim 1, wherein the scrap inorganic insulation fibers are scrap rotary glass fibers or scrap rotary glass fibers and scrap textile fibers.
- 4. (Original) The inorganic fiber insulation material of claim 1, wherein the scrap inorganic insulation fibers have average diameter of about 1 to 10 micrometers.
- 5. (Original) The inorganic fiber insulation material of claim 1, wherein the scrap inorganic insulation fibers have average diameter of about 2 to 5 micrometers.
- 6. (Original) The inorganic fiber insulation material of claim 1, wherein the scrap inorganic insulation fibers have an average fiber length not greater than about 250 mm.
- 7. (Original) The inorganic fiber insulation material of claim 1, wherein the scrap inorganic insulation fibers have an average fiber length not greater than about 127 mm.
- 8. (Original) The inorganic fiber insulation material of claim 1, wherein the scrap inorganic insulation fibers are about 70 to 90 wt. % of the inorganic fiber insulation material.

- 9. (Original) The inorganic fiber insulation material of claim 1, wherein the plastic-containing bonding fibers comprise bi-component fibers.
- 10. (Original) The inorganic fiber insulation material of claim 9, wherein the bi-component fibers are sheath-core, side-by-side, island-in-the-sea, or segmented-pie cross-section type.
- 11. (Original) The inorganic fiber insulation material of claim 9, wherein the bi-component fibers comprise:
 - a core material; and
- a sheath material, wherein the sheath material has a melting point temperature lower than the melting point temperature of the core material.
- 12. (Original) The inorganic fiber insulation material of claim 11, wherein the core material and the sheath material are both thermoplastic polymers.
- 13. (Original) The inorganic fiber insulation material of claim 11, wherein the core material is a mineral and the sheath material is a thermoplastic polymer.
- 14. (Original) The inorganic fiber insulation material of claim 11, wherein the core material and the sheath material are same thermoplastic polymer but of different formulations.
- 15. (Original) The inorganic fiber insulation material of claim 1, wherein the plastic-containing bonding fibers comprise mono-component thermoplastic polymer fibers.
- 16. (Original) The inorganic fiber insulation material of claim 1, wherein the plastic-containing bonding fibers have average fiber diameter of about 10 to 20 micrometers.
- 17. (Original) The inorganic fiber insulation material of claim 1, wherein the plastic-containing bonding fibers have average fiber diameter not greater than 16 micrometers.

- 18. (Previously presented) The inorganic fiber insulation material of claim 1, wherein the plastic-containing bonding fibers are about 10 to 30 wt. % of the inorganic fiber insulation material.
- 19. (Original) The inorganic fiber insulation material of claim 1, wherein said inorganic fiber insulation material has a gram weight of about 310 to 2100 gm/m².
- 20. (Original) The inorganic fiber insulation material of claim 1, wherein said inorganic fiber insulation material has a density of about 24 to 48 kg/m³.
- 21. (Original) The inorganic fiber insulation material of claim 1, wherein said inorganic fiber insulation material after curing has a thickness of about 13 to 89 mm.
- 22. (Previously presented) Inorganic fiber insulation product comprising: a final mat having a first side and a second side, the mat comprising: loose fiber insulation-type glass fibers;

plastic-containing bonding fibers, said scrap glass fibers containing phenol/formaldehyde binder thereon and the scrap glass fibers and the plastic-containing bonding fibers being uniformly blended together to form a blended layer having a substantially uniform density throughout its volume, wherein the plastic-containing bonding fibers bond at least a portion of the glass fibers together; and

a facing layer bonded to at least one of the two sides of the mat.

23.-24. (Canceled)

- 25. (Original) The inorganic fiber insulation product of claim 22, wherein the facing layer is a vapor barrier.
- 26. (Previously presented) The inorganic fiber insulation product of claim 25, wherein the vapor barrier is polyethylene film, kraft paper, kraft paper coated with asphalt, foil, foil-backed paper, foil-backed paper coated with asphalt, or flame-resistant foil-scrim-kraft paper.

- 27. (Original) The inorganic fiber insulation product of claim 22, wherein the facing layer is made from a scrim, woven, non-woven, knit, braided, needled, or composite fabric.
- 28. (Original) The inorganic fiber insulation product of claim 27, wherein the fabric layer is treated with water resistant additive made from epoxy foam, acrylic, or asphalt.
- 29. (Canceled)
- 30. (Previously presented) The inorganic fiber insulation product of claim 22, wherein said scrap glass fibers have average diameter of about 1 to 10 micrometers.
- 31. (Previously presented) The inorganic fiber insulation product of claim 22, wherein said scrap glass fibers have average diameter of about 2 to 5 micrometers.
- 32. (Previously presented) The inorganic fiber insulation product of claim 22, wherein said scrap glass fibers have an average fiber length not greater than about 250 mm.
- 33. (Previously presented) The inorganic fiber insulation product of claim 22, wherein said scrap glass fibers have an average fiber length not greater than about 127 mm.
- 34. (Previously presented) The inorganic fiber insulation product of claim 22, wherein said scrap glass fibers comprise about 70 to 90 wt. % of the final mat.
- 35. (Original) The inorganic fiber insulation product of claim 22, wherein the plastic-containing bonding fibers comprise bi-component fibers.
- 36. (Original) The inorganic fiber insulation product of claim 22, wherein the plastic-containing bonding fibers comprise mono-component thermoplastic polymer fibers.
- 37. (Original) The inorganic fiber insulation product of claim 35, wherein the bi-component fibers are sheath-core, side-by-side, island-in-the-sea, or segmented-pie cross-section type.

- 38. (Original) The inorganic fiber insulation product of claim 35, wherein the bi-component fibers comprise:
 - a core material; and
- a sheath material, wherein the sheath material has a melting point temperature lower than the melting point temperature of the core material.
- 39. (Original) The inorganic fiber insulation product of claim 38, wherein the core material and the sheath material are both thermoplastic polymers.
- 40. (Original) The inorganic fiber insulation product of claim 38, wherein the core material is a mineral and the sheath material is a thermoplastic polymer.
- 41. (Original) The inorganic fiber insulation product of claim 38, wherein the core material and the sheath material are same thermoplastic polymer but of different formulations.
- 42. (Original) The inorganic fiber insulation product of claim 22, wherein the plastic-containing bonding fibers have average fiber diameter of about 10 to 20 micrometers.
- 43. (Original) The inorganic fiber insulation product of claim 22, wherein the plastic-containing bonding fibers have average fiber diameter not greater than 16 micrometers.
- 44. (Previously presented) The inorganic fiber insulation product of claim 22, wherein the plastic-containing bonding fibers are about 10 to 30 wt. % of the final mat.
- 45. (Original) The inorganic fiber insulation product of claim 22, wherein said inorganic fiber insulation product has a gram weight of about 310 to 2100 gm/m².
- 46. (Original) The inorganic fiber insulation product of claim 22, wherein said inorganic fiber insulation product has a density of about 24 to 48 kg/m³.

47. (Original) The inorganic fiber insulation product of claim 22, wherein said inorganic fiber insulation product after curing has a thickness of about 13 to 89 mm.

48. - 55. (Canceled)

56. (Previously presented) The inorganic fiber insulation product of claim 22, wherein the facing layer is bonded to said at least one of the two sides of the mat by a melted and resolidified portion of said plastic-containing bonding fibers.

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